

Strumenti e pratiche per l'open science: l'open peer review tra opportunità e (qualche) perplessità

Maria Cassella

maria.cassella@unito.it

III Convegno annuale ALSA, Milano 9-10 novembre
2017

- *“Somewhere along the way in education, we forgot that peer review is a conversation. The peer-review process reminds us of those human connections.”*

(Brito et al. 2014)

Dalle relazioni umane alle categorizzazioni: di cosa parliamo?

- *Open identities, Open reports, Open participation, Open interaction, Open pre-review manuscripts, Open final version commenting, Open platforms (Ross-Hellauer et al, 2016)*
- Revisione aperta ante pubblicazione
- Revisione aperta post-pubblicazione

OPR: alcuni elementi comuni

- La pubblicazione dei *reports* dei revisori e/o dei commenti in rete
- Il dialogo e la partecipazione pubblica alla revisione con vari livelli di apertura
- La trasparenza del processo di revisione
- La velocità del processo di revisione

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1st stage (discussion forum)

Author → 1 → 2 Editor → 3 → Author

4 MS posted in ACPD forum

5 Comments

6 Revision

7 Revised submission

8 Peer-review completion

9 Final revised publication

2nd stage (journal)

Final revised paper

Referees

Referee comments

Author comments

Short comments

Scientific community

1. Submission | 2. Access review | 3. Technical corrections | 4. MS posted in ACPD forum | 5. Comments | 6. Revision | 7. Revised submission | 8. Peer-review completion | 9. Final revised publication

The process of peer review and publication in the interactive scientific journal Atmospheric Chemistry and Physics (ACP) differs from traditional scientific journals. It is a two-stage process involving the scientific discussion forum Atmospheric Chemistry and Physics Discussions (ACPD), and it has been designed to utilize the full potential of the Internet to foster scientific discussion and enable rapid publication of scientific papers.

Initial access peer review assures the basic scientific and technical quality of papers published in ACPD. Subsequent interactive discussion and public commenting by the referees, authors, and other members of the scientific community is expected to enhance quality control for papers published in ACP beyond the limits of the traditional closed peer review. Also in cases where no additional comments from the scientific community are received, a full peer-review process in the traditional sense, albeit in a more transparent way, is assured before publication of a paper in ACP.

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Clarivate Analytics IF 5.318

APC: le nove fasi

- Submission of original manuscript and editor assignment
- Access review
- Technical corrections
- Publication of discussion paper in ACPD
- Open discussion (8 weeks)
- Final response
- Submission of revised manuscript
- Peer-review completion
- Publication of final revised paper in ACP

OPR: le piattaforme

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Quality of Research

Rubriq scorecard

Compiled on March 31st, 2017

Editors involved: Treatment of XX (not identifiable) there is a score of XX

OPR: le piattaforme

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The Reviewer Prize 2016
05 OCT 2016

30 more journals!
16 AUG 2016

More destinations! [UPDATED]
02 JUN 2016

Recent Publications

The common redstart as a suitable model to study cuckoo-host coevolution in a unique ecological context

Samaš P., Rutila J. & Grim T.
- *BMC Evolutionary Biology*

Reviews 1	PEQ* 4.5	PAQ** 3.9	Published
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OPR: i vantaggi

- Totale trasparenza del processo di revisione
- Velocità nella disseminazione dei risultati della ricerca

“Perhaps the most convincing pro argument for OPR asserts that OPR processes allow for quicker publication and dissemination of scientific findings.” (Ford, 2015)

- Riconoscimento pubblico del lavoro dei revisori

OPR: i vantaggi

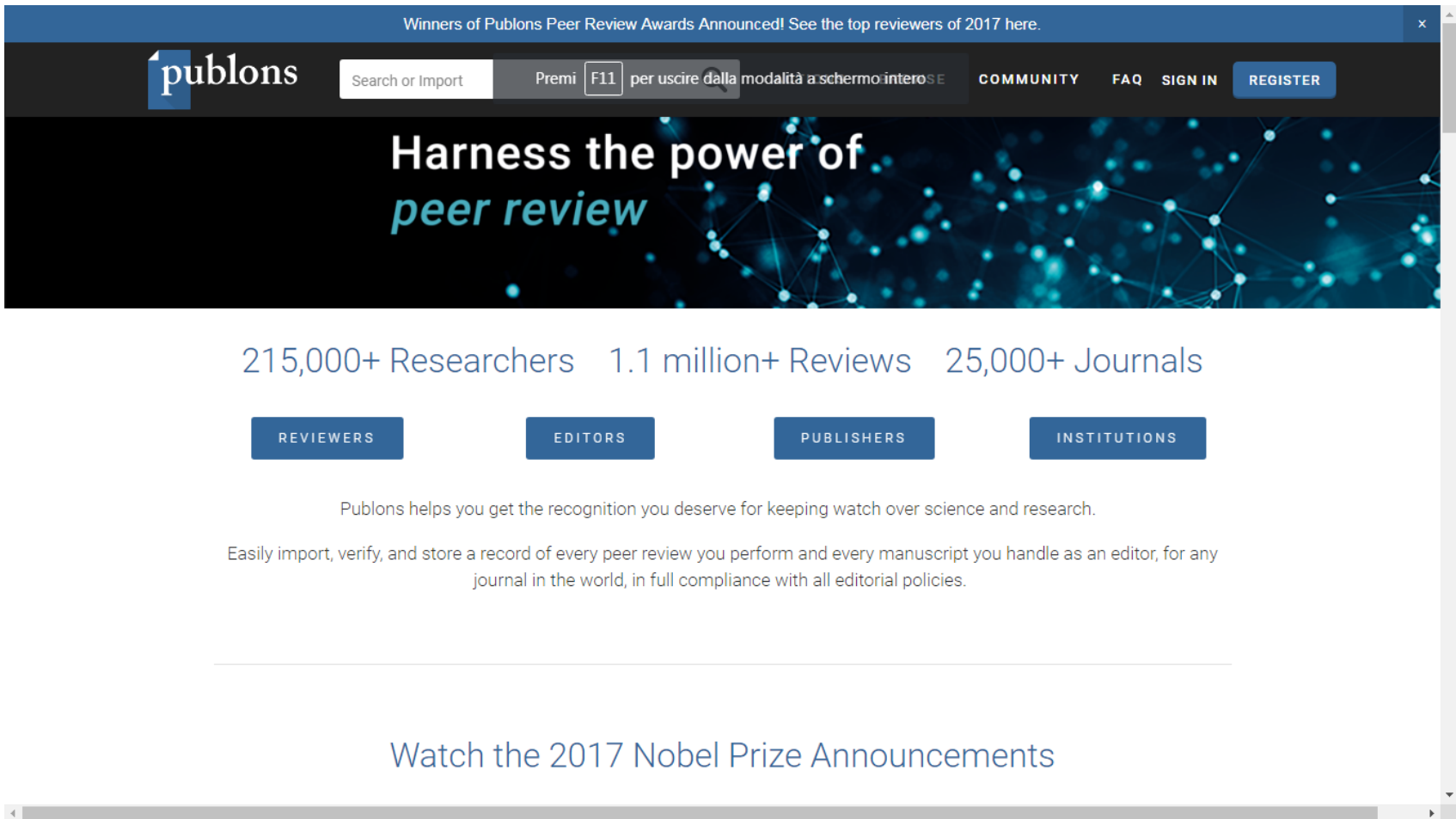
- Questo è uno dei principali nodi da risolvere per raggiungere una valutazione quanto più possibile olistica dell'attività intellettuale del singolo ricercatore, ma anche per garantire all'editoria accademica la disponibilità di un numero adeguato di revisori

- *“Wiley’s survey reports that 80% of researchers agree that there is insufficient recognition for peer review as a valuable research activity and that researchers would actually commit more time to peer review if it became a formally recognized activity for assessments, funding opportunities, and promotion.”*

(J.P. Tennant et al., 2017)

F1000Research e **Science Open** utilizzano un DOI per identificare le revisioni, rendendole così più facilmente tracciabili e citabili

OPR: le piattaforme per il riconoscimento del lavoro dei revisori



Winners of Publons Peer Review Awards Announced! See the top reviewers of 2017 here.

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OPR: le piattaforme per il riconoscimento del lavoro dei revisori



OPR e il tema della qualità

- Superiorità qualitativa dell'open peer review rispetto al modello tradizionale?
- Alcuni studi sembrano dimostrarlo!

OPR e il tema della qualità

- Bornmann (2011) dimostra che gli articoli pubblicati da ACP si collocano tra quelli più citati nell'ambito scientifico della chimica atmosferica
- BioMed Central: studio comparativo tra *BMC Microbiology* (modello chiuso) *BMC Infectious Diseases* (modello aperto)
- Superiore qualità dei report prodotti dai revisori secondo il modello aperto

OPR e il tema della qualità

- Herron (2012) produce un modello matematico in base al quale dimostra che:
“the accuracy of public reader-reviewers can surpass that of a small group of expert reviewers if the group of public reviewers is of sufficient size although only if the numbers of reader-reviewers exceeded 50.”
- Risponde anche alle critiche che vengono rivolte al modello di *Open participation*

OPR: uno sguardo al futuro

- Con OPR il ruolo di autori, revisori ed editori cambia in modo sensibile
- Grado di soddisfazione difforme rispetto al modello di revisione tradizionale
- Il livello di adozione degli strumenti dell'OS varia tra una comunità ed un'altra
- Bias generazionale
- Crescita non uniforme delle diverse tipologie di open peer review
- Alcune funzioni nella comunicazione scientifica vengono a scindersi dal contenuto

OPR e le norme mertoniane

- L'OPR:
- Veicola i valori mertoniani del *comunismo e dell'universalismo*:
- Facilita e velocizza il riconoscimento pubblico del lavoro del ricercatore
- Aggiunge al riconoscimento per il lavoro di ricerca anche il riconoscimento del lavoro dei revisori
- Facilita il superamento dell'individualismo e della rigida gerarchia che vige in accademia
- Rafforza il senso di comunità